IAP7 Rec'd PCT/PTO 10 APR 2006

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TRANSMITTAL LETTER TO	ATTORNEY'S DOCKET NUMBER 2771-682 US						
DESIGNATED/ELECTED	U.S. APPLICATION NO_(If known, see 37 CFR 1.5)						
CONCERNING A SUBMISSIO	Not Yet Known 0 / 5 7 5 5 6						
INTERNATIONAL APPLICATION NO. PCT/US2004/033915	INTERNATIONAL FILING DATE 14 October 2004	PRIORITY DATE CLAIMED 14 October 2003					
TITLE OF INVENTION: HYDROGEN GENERATION							
APPLICANT(S) FOR DO/EO/US: J. Donald Carruthers, Jose I. Arno							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
2. This is a SECOND or SUBSEQU	JENT submission of items concerning a	submission under 35 U.S.C. 371.					
3. X This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4. X The US has been elected (Article	e 31).						
5. X A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. X is attached hereto (required only if not communicated by the International Bureau). International Publication No. WO 2005/037421 as published on April 28, 2005							
b. has been communicated by the International Bureau.							
c. is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).							
a. is attached hereto.							
b. has been previously submitted under 35 U.S.C. 154(d)(4).							
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))							
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been comm	b. have been communicated by the International Bureau.						
c. have not been m	ade; however, the time limit for making	such amendments has NOT expired.					
d. have not been ma	ade and will not be made.						
8. An English language translation	8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. An oath or declaration of the inve	entor(s) (35 U.S.C. 371(c)(4)).						
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern documer	nt(s) or information included:						
11. X An Information Disclosure State	ment under 37 CFR 1.97 and 1.98.						
12. An assignment document for red	cording. A separate cover sheet in com	pliance with 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.							
14. An Application Data Sheet unde	r 37 CFR 1.76.						
15. A substitute specification.							
16. X A power of attorney and/or chan	ge of address letter.						
17. A computer-readable form of the	sequence listing in accordance with Po	CT Rule 13ter.2 and 37 CFR 1.821 – 1.825.					
18. A second copy of the published	International Application under 35 U.S.0	C. 154(d)(4).					
	nguage translation of the international a						

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

PTO-1390 (Rev. 07-2005)
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U.S. APPLICATION NO. (#Knewprese of #FR 4.5)			INTERNATIONAL APPLICATION NO. PCT/US04/033915			ATTORNEY'S DOCKET NUMBER 2771-682 US		
20. Other items or information: Return Receipt Postcard and Credit Card Form								
The following fees have been submitted					CALCULATIONS PTO USE ONLY			
21. X Basic national fee (37 CRF 1.492(a))			\$300	\$300				
22. X Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT PCT Article 33(1)-(4) \$0				\$ O				
All other situations \$200 23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					\$ 300			
		101	AL OF 21, 22 and	23 -			\$ 555	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing IN COMPLIANCE WITH 37 cfr 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra sheets Number of each additional 50 or fraction thereof (round up to a whole number)					m listing in an			
45 -100 =	0	/50 =		0		× \$250	\$ 0	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of the commencement of the national stage (37 CFR 1.492(h)).					\$ 0			
CLAIMS		NIIN	BER FILED	NUMBER EXTRA		RATE	\$	
Total claim	s		33 - 20 =	63	х	\$50	\$3,150	
Independent claims			5 - 3 =	2	х	\$200	\$ 400	
MULTIPLE DEPEN		AIM(S) (if a	pplicable)		+	\$360	\$ 0	
				TOTAL OF ABOV	E CA	LCULATIONS =	\$3,850	
Applicant cl	aims small	entity state	us. See 37 CFR 1	.27. Fees above are reduced	by ½		\$3,850	
SUBTOTAL =				SUBTOTAL =	\$3,850			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ 0				
				тот	AL NA	TIONAL FEE =	\$3,850	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					panied by an +	\$ 0		
•				TOTAL	. FEES	SENCLOSED =	\$3,850	
a. A ch	eck in the	amount	of \$	to cover the abo	ve fe	es is enclosed.		
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.								
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-3284								
d. X Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
_			• •	w pending status.		0-0		
SEND ALL CORRESPONDENCE TO: INTELLECTUAL PROPERTY/TECHNOLOGY LAW P.O. Box 14329				SIGNATURE:				
Research Triangle Park, NC 27709-4329				Stever	Steven J. Hultquist NAME			
				28,021 REGIS		TION NUMBER		

10/575556 IAP15 Rec'd PCT/PTO 1 0 APR 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States	s Patent Application of:)		
Applicant(s):	Carruthers, et al.) Docket No.:	2771-682 US	
Application No.:	New U.S. National Stage Application of PCT International Application No. PCT/US2004/033915	Examiner:	Not Yet Assigned Not Yet Assigned	
Int'l Filing Date:	14 October 2004) Art Unit:		
Priority Date:	14 October 2003 (U.S. Provisional Patent Application No. 60/510,983)))) Customer No.:	23448	
Title:	HYDROGEN GENERATION)		
	I hereby certify that I am mailing the attached Commissioner for Patents on the date specified addressed to Mail Stop: PCT Commissioner for Pater Alexandria, VA 22313-1450 and Express Mailed ur of 37 CFR 1.10. Candace White April 10, 2006 Date EO 008 658 765 US Express Mail Label Number	documents to the , in an envelope ats, P.O. Box 1450,		

SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION (NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO. PCT/US2004/033915 AND CLAIMING PRIORITY OF U. S. PROVISIONAL PATENT APPLICATION NO. 60/510,983

Mail Stop: PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/US2004/033915 and claiming priority of U.S. Provisional Patent Application No. 60/510,983. A copy of International Publication No. WO 2005/037421 as published on April 28, 2005 is also included. Further included

10/575556JAP15 Rec'd PCT/PTO 1 0 APR 2006

is a copy of the signed PCT Power of Attorney documents, a return postcard, and a credit card form in the amount of \$3,850.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,

Steven J. Hultquist Registration No. 28,021 Attorney for Applicants

INTELLECTUAL PROPERTY/ TECHNOLOGY LAW P.O. Box 14329 Research Triangle Park, NC 27709 Tel: (919) 419-9350 Fax: (919) 419-9354 Attorney Ref.: 2771-682 US (7486)